INTERNATIONALSEARCHREPORT

International application No. PCT/JP 2004/014128

A. CLA	SSIFICATION OF SUBJECT MATTER		•			
Int.Cl 7						
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED						
	ecumentation searched (classification system followed by	classification symbols)				
Int.Cl7 B	Int.Cl ⁷ H01L33/00					
Japanese Applicati Containin	Ocumentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004					
Electronic da	Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
JST Online Information System(JOIS)						
C. DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where ap	propriate, of the relevant pas	sages Relevant to cla	im No.		
x	Journal of Applied Physics pp.3826-3832, whole document		99),			
x	Journal of Applied Physics, pp.4491-4497, whole document		99),			
x	Applied Physics Letters, Vo. pp.3703-3705, whole document		1-20			
x	Journal of Applied Physics pp.4196-4200, whole document		00),			
x	Applied Physics Letters, Vo. pp.3978-3980, whole document		1-20			
x	Journal of Applied Physics pp.1748-1752, whole document		03),			
	·	•				
Furthe	Further documents are listed in the continuation of Box C. See patent family annex.					
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention						
nationa	application or patent but published on or after the inter- l filing date	fining the general state of the art which is not be of particular relevance ation or patent but published on or after the intergrater of the may throw doubts on priority claim(s) or which priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone				
is cited special	to establish the publication date of another citation or other reason (as specified)	ch may throw doubts on priority claim(s) or which blish the publication date of another citation or other (as specified) Tring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such				
"P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed						
	Date of the actual completion of the international search Date of mailing of the international search report					
17.12.2004		11. 1. 2005				
Name and m	fame and mailing address of the ISA/JP Authorized officer 2K 9010					
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International application No. PCT/JP2004/014128

C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevan	Citation of document, with indication, where appropriate, of the relevant passages	
x	Journal of Crystal Growth, Vol. 230, No. 3/4(2001), pp. 564-568, whole document		1-20
x	J Vac Sci Techol B, Vol.20, No.4(2002), pp.1394-1401, whole document		
A	JP 10-209500 A(TOYODA GOSEI CO.,LTD.), 1998.08.07, whole document(Family:none)	-	1-20
A	JP 10-135515 A(TOYODA GOSEICO.,LTD.), 1998.05.22, whole document(Family:none)		
A	JP 10-308534 A(SHOWA DENKO K.K.),1998.11.17, whole document(Family:none) Journal of Applied Physics, Vol.83, No.6(1998), pp.3172-3175, whole document		1-20
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